

Rocky Mountain
Remediation Services, L.L.C.
... protecting the environment



000063493

INTEROFFICE MEMORANDUM

DATE: September 13, 1996 MAL - MP-DD-011

TO: S. M. Nesta, NEPA, T130C, X7838

FROM: D. R. Mittlestadt, Project Management, T130F, X2084

SUBJECT: REQUEST NEPA REVIEW OF THE REMOVAL AND DEMOLITION OF
GUARDPOSTS #461 AND #446 - DRM-003-96

Action: Provide a NEPA review within project schedule.

PURPOSE

The purpose of the memorandum is to request a NEPA review.

DISCUSSION

K-H has requested RMRS to provide the removal and demolition of Guardposts #461 and #446, in order to meet one of their performance measures by September 30, 1996.

Guardposts #461 and #446 are two small structures (used as interior guardposts), but are no longer required to support the current mission at Rocky Flats Environments Technology Site (RFETS). The removal of these buildings will involve the following tasks:

- Utilities system isolation, disconnection, and removal.
 - Electrical
 - Water and Sewer
 - Alarms and Security
- Demolition of the building structures using bulldozer and front-end loader.
(leaving slab on grade)
- Dismantlement and removal of adjacent gate operators.

The existing building materials have been tested for asbestos and the presence of lead in the painted surfaces. Paint waste containing 5ppm of lead or less and non-friable asbestos are acceptable wastes at RFETS landfill. Demolition waste, such as concrete, masonry, and roofing rubble would also be disposed in RFETS landfill. There was no detectable asbestos, rad, or Be found in the structures.

Attached for your information is a copy of the Statement of Work for the demolition subcontractor.

Demolition is planned during September 1996, and will be completed in the same month, to meet K-H's performance measure.

ADMIN RECCRD

Best Available Copy

1/16
IA-A-000713

September 13, 1996
S. M. Nesta
DRM-003-96
Page 2

RESPONSE REQUIREMENTS

Please provide a NEPA review for the project, keeping within the project schedule. Thank you for your assistance and support. If you have any questions, please contact me at X2084, or D5654.

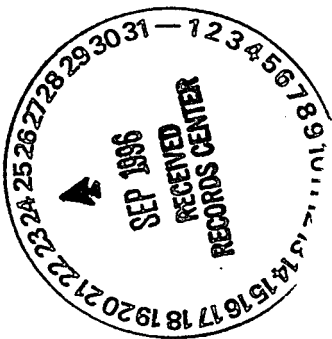
Attachment:
As Stated

DRM:dlu

cc:

R. Gurule K-H 371 w/o attach.

C. L. Guthrie RMRS T130F " "
Corres Control RMRS 080



2

STATEMENT OF WORK
FOR
REMOVAL OF BUILDING 461 AND 446 GUARD POSTS

Prepared by:
Engineering/Construction/Decommissioning
Rocky Mountain Remediation Services, L.L.C.
Rocky Flats Environmental Technology Site

Authorization Number: 955011

Revision 1
September 11, 1996

1.0 INTRODUCTION

- 1.1 This Statement of Work (SOW) describes the required Subcontractor services for removal of the Building 461 and 446 Guard Posts at the Rocky Flats Environmental Technology Site (RFETS).
- 1.2 This work will be performed for Rocky Mountain Remediation Services, LLC (RMRS) hereafter referred to as the Contractor.
- 1.3 For purposes of this SOW deactivation, decontamination, dismantlement, and removal of the guard posts will be referred to as "demolition."
- 1.4 *Use existing Health & Safety, Quality Assurance, and other plans from the original Fuel Oil Storage Tanks Removal Project. Modify as required to meet the requirements of this contract modification.*

2.0 SCOPE

The Subcontractor shall provide labor, equipment, and materials to demolish the two guard posts. All work shall be completed by September 30, 1996. The work will include, but may not be limited to the following. The sequence listed does not necessarily reflect the sequence in which the actual demolition work will be performed.

2.1 Building 461 Guard Post

- 2.1.1 Remove all items inside the guard post that have not been removed by the contractor. The Contractor will remove all furniture.
- 2.1.2 Remove electrical items including lights, panels, transformer, disconnect boxes, conduit, and wires from the interior and exterior of the guard post. Cut all underground electrical feeds flush with the top of the floor slab, and cap or seal with grout.
 - 2.1.2.1 Disconnect the end of the 480 volt feeder conductors from the service disconnect switch inside the guard post.
 - 2.1.2.2 Disconnect the 120 volt conductors from the UPS panel inside the guard post.
 - 2.1.2.3 Pull both sets of conductors together, which share the same underground conduit, in the direction of Building 460. This is accomplished from the junction box in the southwest corner of Room 104 in Building 460.
 - 2.1.2.4 Remove the 120 volt conductors from the junction box. Coil up and stow the 480 volt conductors in the junction box.

- 2.1.2.5 Disconnect the 277 volt conductors from the access ~~post~~ *port* at the Security Lighting Standard. Pull the conductors out of the underground conduit in the direction of the guard post.
- 2.1.3 Relocate the sprinkler system controller from the north side of the guard post to the ~~outside, south wall~~ *inside lobby* of Building 460. Run underground 24 volt wires from the controller to the junction outside the southwest corner of the guard post. Install an underground junction box at the tie-in. The Contractor will provide 110 volt power to the controller from Building 460.
- 2.1.4 Remove all security systems, panels, outside antenna, conduit and wire. Cut feeds flush with the top of the floor slab, and cap or fill with grout.
- 2.1.5 Remove all plumbing fixtures and piping. Cut the underground domestic water and sanitary feeds at the slab, and cap or seal with grout.
- 2.1.6 Remove all HVAC and other mechanical equipment not removed by the Contractor. The Contractor will remove the air handling unit and the outdoor condensing unit.
- 2.1.7 Remove the guard post down to the slab. The floor slab and footings are to remain in place.
- 2.1.9 Remove the railing and bollards on the east side of the guard post.
- 2.1.10 Remove the gate opener across the street from the east side of the guard post.

2.2 Building 446 Guard Post

- 2.2.1 Remove all items inside the guard post not removed by the Contractor. The Contractor will remove all furniture.
- 2.2.2 Remove electrical items including lights, panels, transformers, disconnect boxes, conduit, and wires from the interior and exterior of the guard post. Cut all underground electrical feeds at the floor slab, and cap or seal with grout.
- 2.2.2.1 Pull the 480 volt feeder conductors from Building 444 out of the underground conduit in the direction of the guard post.
- 2.2.3 Remove all security systems, panels, outside antenna, conduit and wire. Cut feeds at the floor slab, and cap or fill with grout.

- 2.2.4 Remove the guard post down to the slab. The floor slab including the floor tiles, and the footings are to remain in place.
- 2.2.5 Remove the railing and bollards on the east side of the guard post.
- 2.2.6 Pave over the slab with a minimum 3 inches of asphalt. The pavement shall comply with RFETS Specification 02600.

3.0 GENERAL BACKGROUND

The Building 461 and 446 Guard Posts are no longer needed for security at RFETS. The guard posts were used to limit access to the "400" area buildings. A description of the guard posts is as follows (see attached drawings for additional information):

Building 461 Guard Post

- Approximately 16 x 16 feet by 10 feet high concrete block structure.
- Spread footings with concrete slab floor.
- Flat membrane roof.
- Impact resistant, insulated glass windows.
- Lavatory with sink, domestic water and sanitary piping, and electric water cooler and heater.
- HVAC system with air handling unit, ductwork, heat pump and exhaust fan.
- Electrical panels, disconnects, conduit and wiring.
- Alarm and telephone boxes and wiring.

Building 446 Guard Post

- Approximately 23 x 14 feet by 10 feet high concrete structure with windows.
- Spread footings with concrete slab floor.
- Flat membrane roof.
- Electric heaters.
- Electrical panels, disconnects, conduit and wiring.
- Alarm and telephone boxes and wiring.

4.0 TECHNICAL REQUIREMENTS

- 4.1 The Subcontractor shall make a pre-award, pre-proposal walkdown of the work area.
- 4.2 The demolition shall comply with RFETS Specification 02110 and applicable Division I specifications.
- 4.3 An underground utilities survey shall be performed by the Contractor prior to commencing demolition activities. The Subcontractor shall verify the location of utilities

prior to the start of demolition, *and perform a no load/no voltage verification prior to the start of demolition.*

4.4 Compliance with OSHA regulations related to the work is mandatory. This may include, but is not limited to 29 CFR Subpart T, Demolition and 29 CFR 1926.62 Lead.

~~4.5 Removal of asbestos containing material shall comply with 29 CFR 1926.1101 and RFETS Specification 02082. It is assumed all asbestos containing material is non friable and can be handled in accordance with Section 3.03.1 of 02082.~~

4.6 All electrical and mechanical lockouts will be performed by the Contractor. The Subcontractor must verify the de-energized status.

4.7 All electrical and mechanical disconnections or terminations inside Buildings 460 or 444 will be performed by the Contractor.

4.8 All equipment or items that can be reused by the Contractor shall be hauled by the Subcontractor to RFETS Property Utilization & Disposal (PU&D). All recyclable metals shall be placed in a dumpster provided at the job site by the Contractor.

4.9 All Demolition debris that does not go to PU&D will be hauled by the Subcontractor to the RFETS Sanitary Landfill.

4.10 The Subcontractor shall provide a unit price to haul all debris which are not recycled offsite.

4.11 The Subcontractor shall provide a unit price per square foot for the removal and disposal of asbestos material if encountered.

4.12 *Both the 461 and 446 guard posts have lead paint. Demolition of structures where lead or materials containing lead are present shall comply with 26 CFR 1926.62 and a Subcontractor Lead Compliance Plan.*

5.0 DELIVERABLES

5.1 The Subcontractor shall provide a work sequence and methods to be used for the work two days after contract award.

5.2 The Subcontractor shall provide a *Health & Safety Plan Addendum and Activity Hazard Analyses* ~~Job Safety Analysis~~ for the project three days after contract award.

5.3 The Subcontractor will provide an Engineering Survey in accordance with 29 CFR, Subpart T, 1926.850(a) prior to the demolition.

6.0 ATTACHMENTS

The following reference drawings are included as part of this SOW. These drawings shall be used by the Subcontractor as a guide to the location and extent of the work to be performed under this SOW. These drawings have not been field verified and might not show existing conditions.

Division 2 Specifications

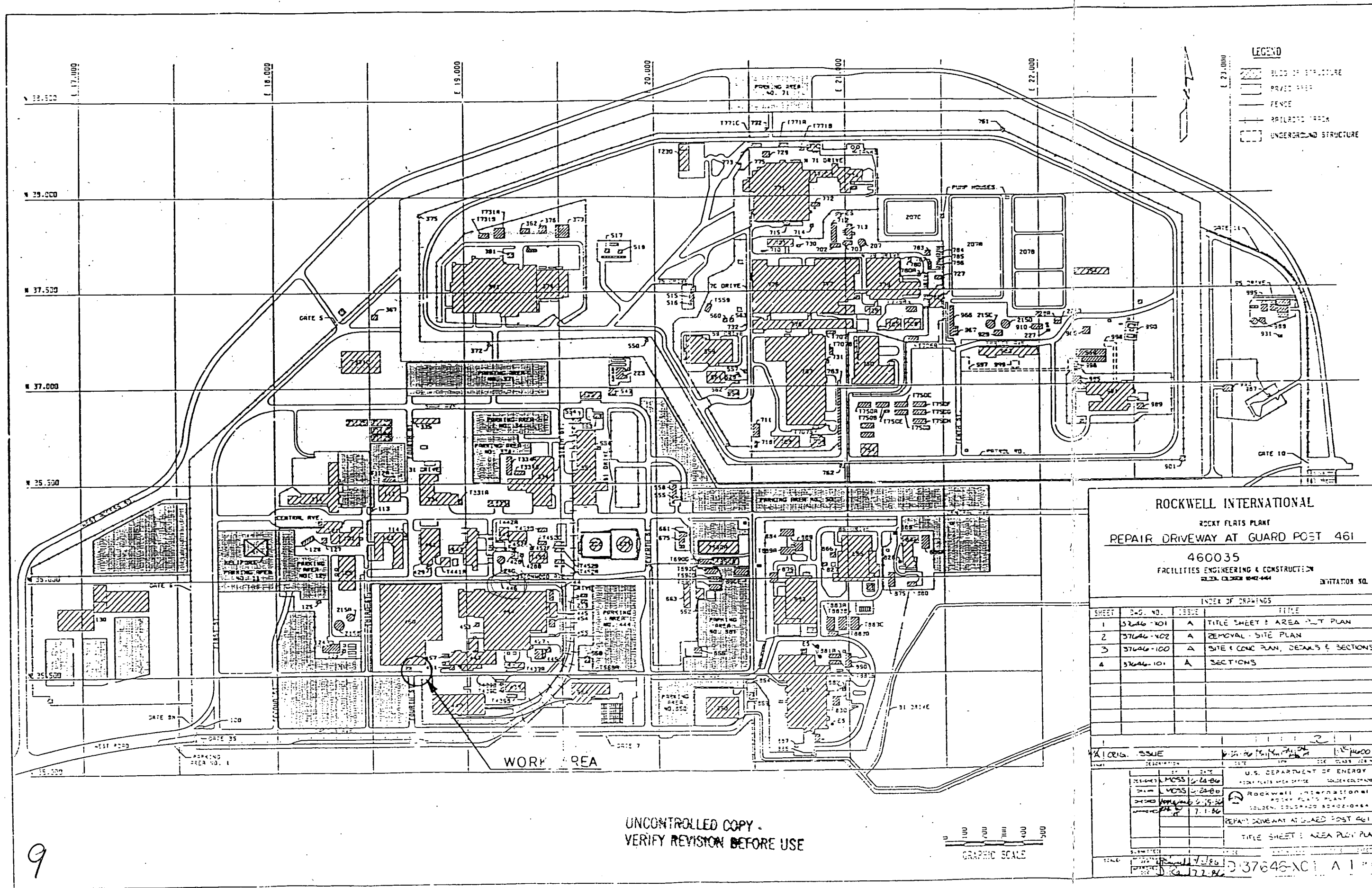
02110 - Demolition

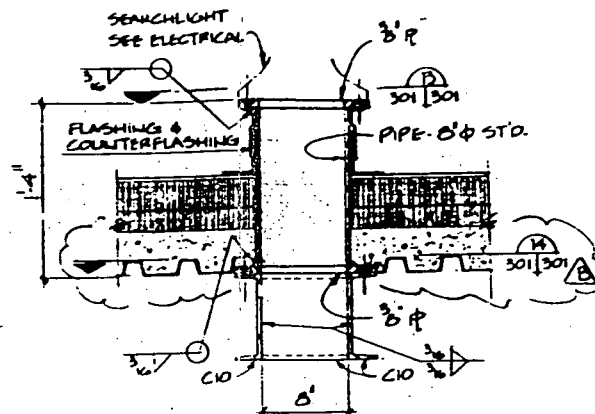
02600 - Asphalt Concrete Pavement

~~02082 - Removal and Disposal of Asbestos Material (applicable pages only)~~

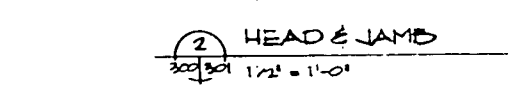
Drawings

37646-X01	Plot Plan
36002-300	Building 461 Plans & Elevations
36002-301	Building 461 Sections & Details
36002-401	Bldg. 461 HVAC & Plumbing
36002-508	Guard House Bldg. 461 (Electrical)
14346-1	Building 446 Floor Plan & Elevation
38503-115	Roof Replacement, Building 446
RF-46-300	Building 46 Power, Lighting, Telephone & Alarm Systems

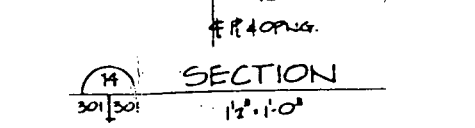





SEARCHLIGHT MOUNT



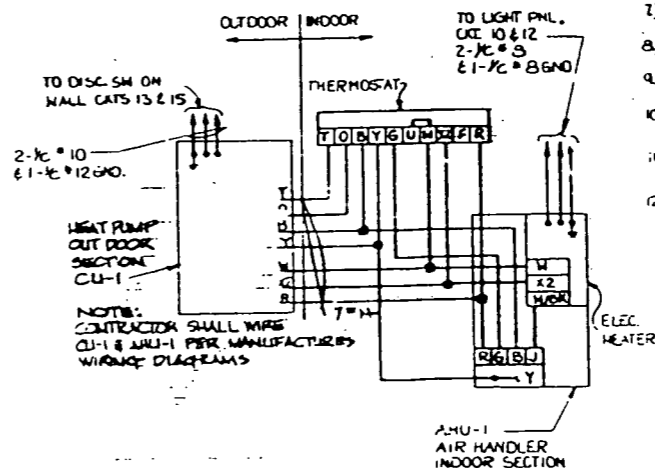
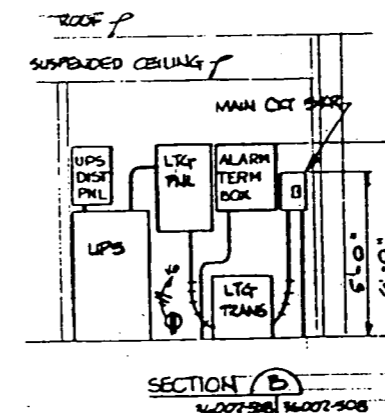
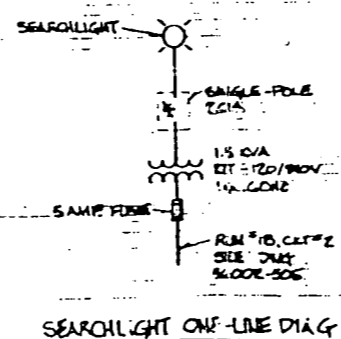
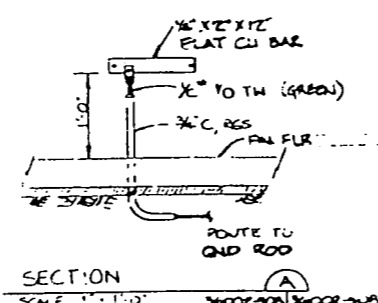
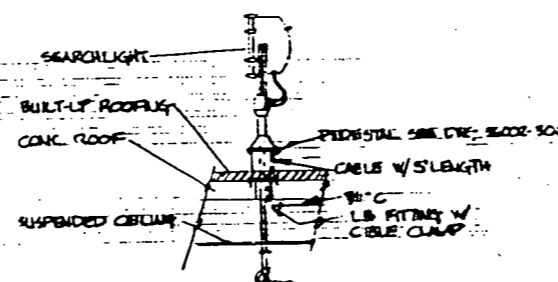
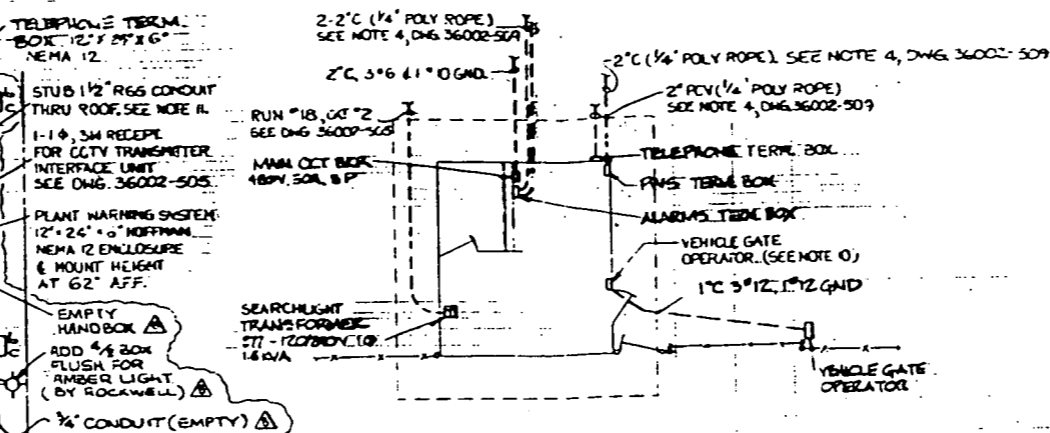
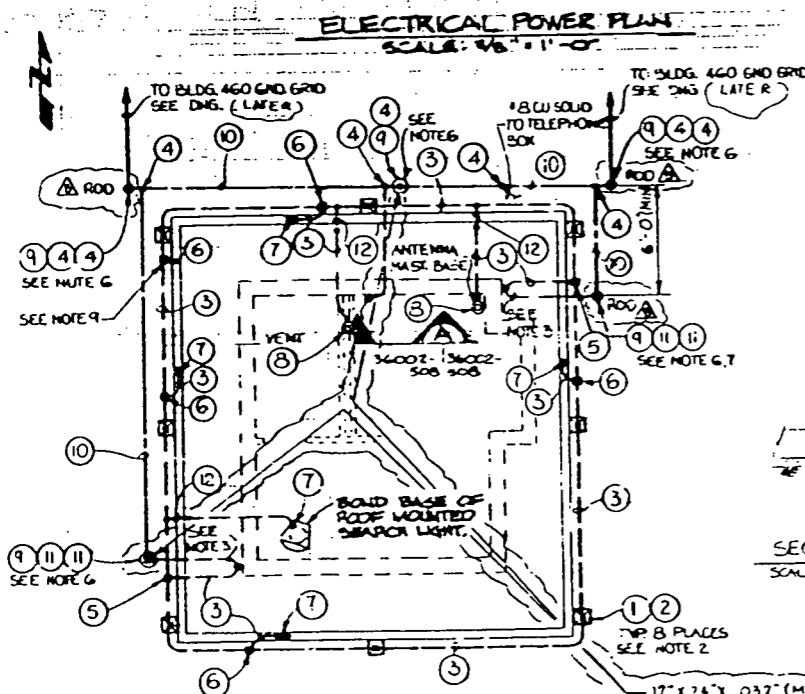
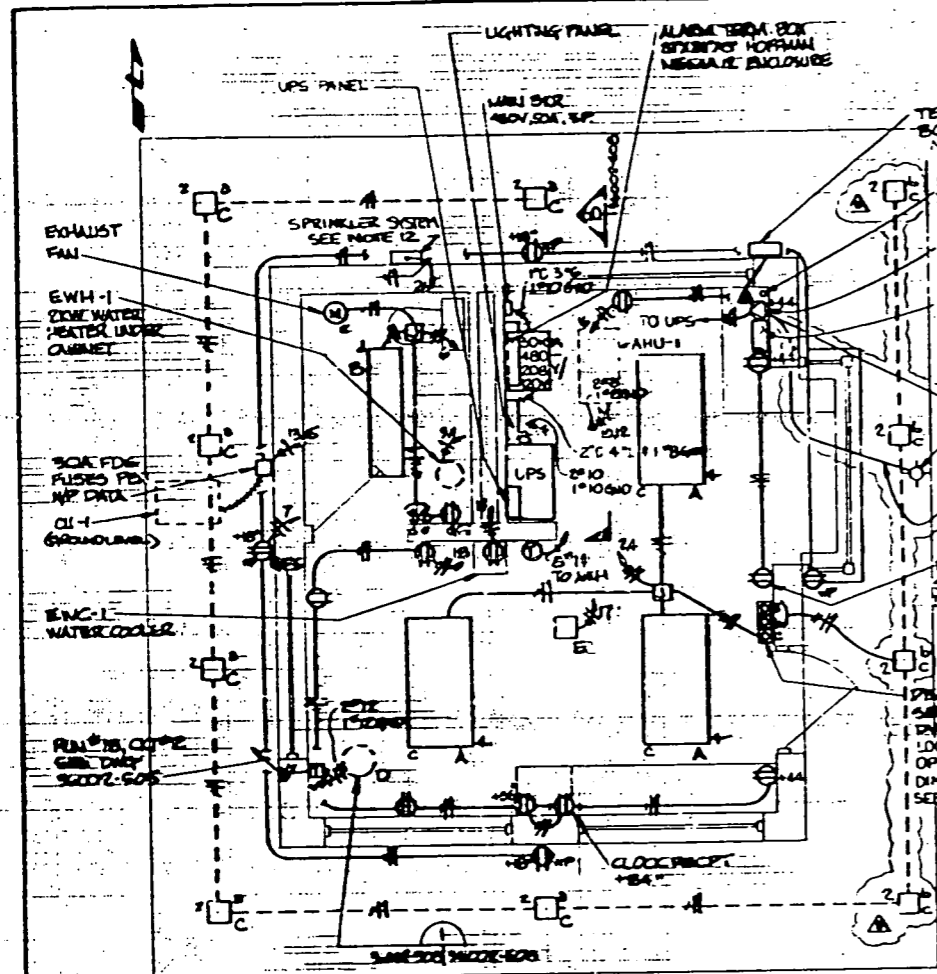
2 HEAD & JAMB



14 SECTION

PC	RS BUILT - NO CHANGE	4-1-86	ALC				
B	Roof Deck Plymbr Gravel	4/14/84	4/14/84				6398005
A	ORIGINAL RARE	5-30-84	4/2				5488005
SIZE	DESCRIPTION	DATE			DOE	CLARK	AGE 63
TELEPHONE	BY	DATE	U.S. DEPARTMENT OF ENERGY				
INSTR.	REVISION	4-1-86	ROCKY PLATE AREA OFFICE				
AMBL	SWICH	8-16-83	SOLAR, COLORADO				
SEC.	CHIEF	2-14-84					
TELETYPE	APPROVED	4-1-86	CONSTRUCTION NON-DEPLETION RESEARCH FACILITY FACILITY BLDG. 409				
OTHERWISE	APPROVED	4-1-86	BUILDING 401 SECTIONS 8 DETAIL S				
REMARKS	REVISION	5/2/86	AGE	CLARK	DOE	CLARK	AGE 63
CHART	APPROVED	5/30/84	D 36002-301 C 11				
CHART	APPROVED	5/2/84					
CHART	APPROVED	5/2/84					

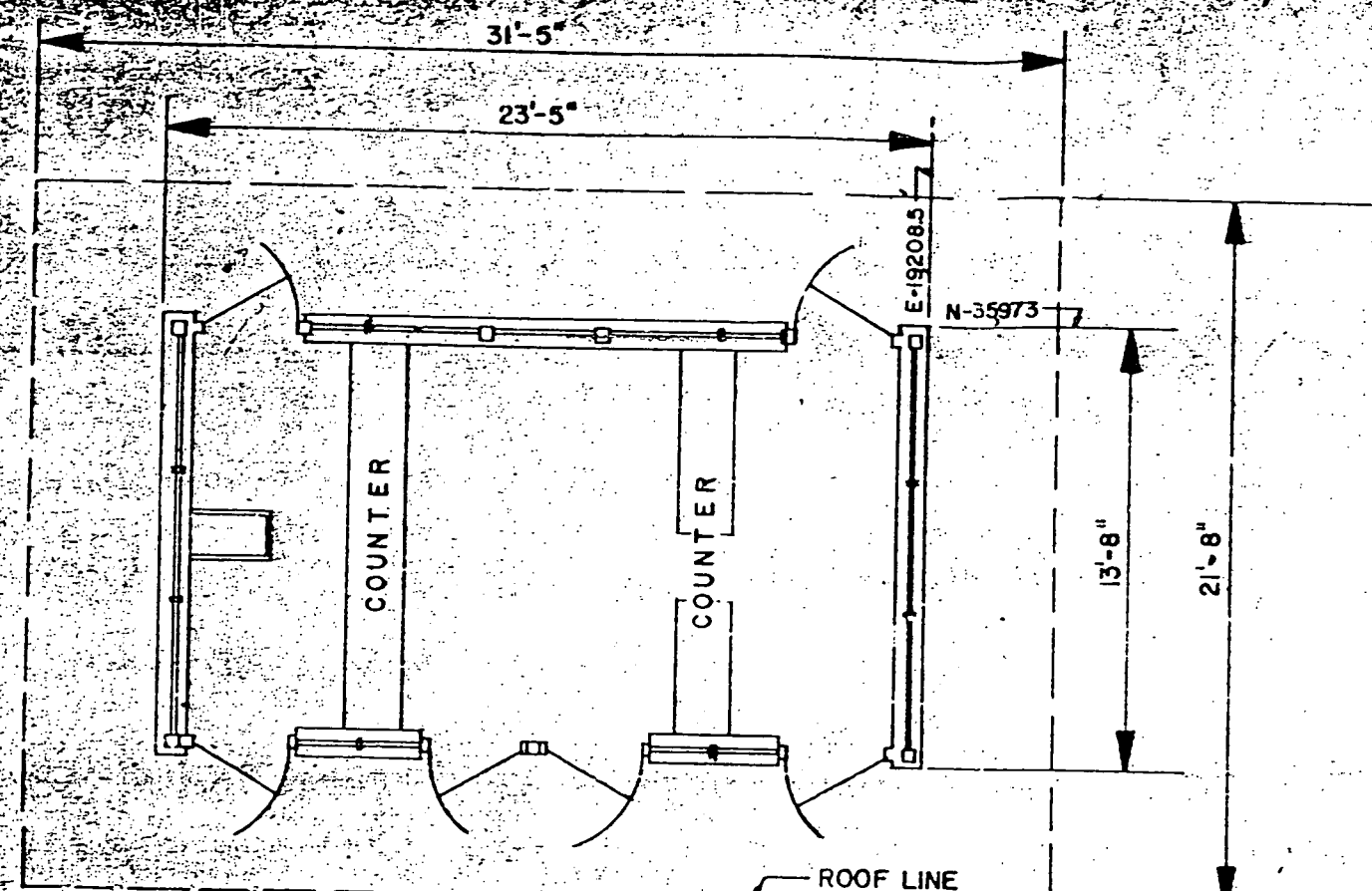




PLST	QMAR	DESCRIPTION	QWATER
①	8	OFFSET WALL POINT BASE FOR 1/2-INCH COPPER POINT.	NO. 642
②	8	SOLID COPPER POINT 1/2-INCH DIAMETER BY 18-INCHES LONG	NO 22
③	2000	COPPER CONDUCTOR 17 ANG STRAND (MIN.), 137 LBS. 000 FT., 57400 CM (MIN.).	NO 6
④	8	COMPRESSION TYPE CROSS CONNECTOR	BURNEDY NO 151
⑤	2	TEE CABLE SPLICER	NO 654
⑥	7	CABLE SPLICER FOR PARALLEL SPLICE	NO 68A
⑦	5	BOWDING LUG	NO 70X
⑧	2	PIPE BOWDING STRAP	NO. 677-4
⑨	5	GROUND ROD, STANDARD TYPE COPPER-CLAD STEEL 3/4-INCH DIAMETER 10 FT. LONG.	NO 47-10
⑩	15 FT	* 4.0 SOFT DRAWN BARE COPPER CABLE	_____
⑪	4	GROUND ROD CLAMP	THOMPSON NO 643
⑫	5	THRU-WALL CABLE CONNECTOR	NO 7440CT2

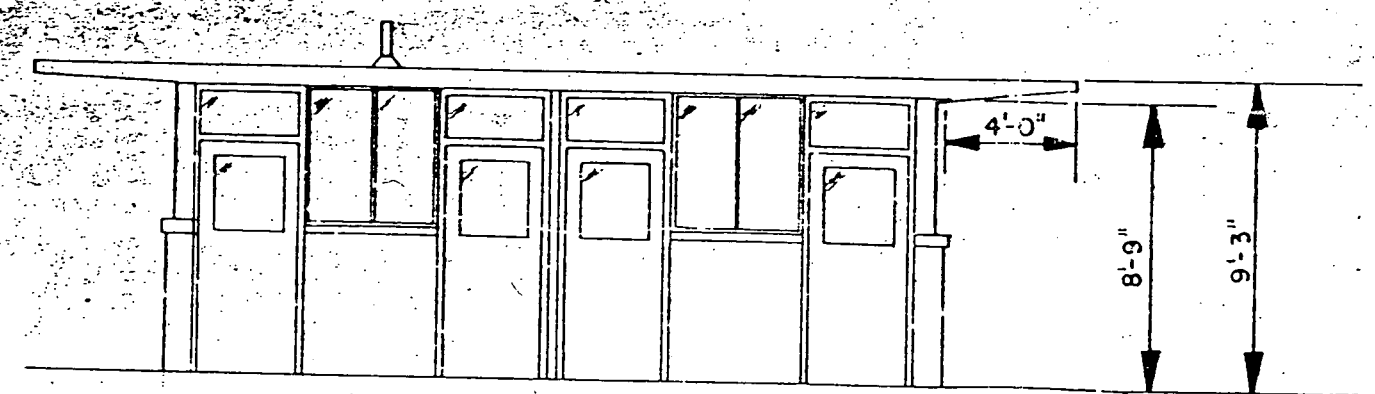
- 1.) ALL PART NO'S LISTED ABOVE FOR THE LIGHTNING PROTECTION SYSTEM ARE ROBINS LIGHTNING PROTECTION CATALOGUE PART NUMBERS, EXCEPT AS NOTED.
- 2.) INSTALL AIR TERMINAL AND BASE ON OUTSIDE FACE OF PARAPET SUCH THAT TERMINAL EXTENDS NO. 6" ABOVE TOP OF PARAPET.
- 3.) ROUTE DOWN CONDUCTORS ON THE BUILDING EXTERIOR.
- 4.) NO BEND OF A LIGHTNING PROTECTION CONDUCTOR SHALL FORM AN INCLUDED ANGLE OF LESS THAN 90° NOR HAVE A BEND RADIUS LESS THAN 8 INCHES.
- 5.) PROPERLY ANCHOR ROOF PERIMETER CABLE AND DOWN CONDUCTORS ON 3 FT. CENTERS.
- 6.) UNDERGROUND LIGHTNING PROTECTION SYSTEM CONNECTIONS SHALL BE BOLT TYPE. UNDERGROUND GROUNDING SYSTEM CONNECTIONS SHALL BE COMPRESSION TYPE. ABOVE GROUND LIGHTNING PROTECTION SYSTEM CONNECTIONS SHALL BE BOLT TYPE.
- 7.) MAINTAIN 6'-0" MIN. BETWEEN ELECTRODES OF DIFFERENT SYSTEMS.
- 8.) SEAL ALL PENETRATIONS THRU PARAPET WITH SILICON SEALANT.
- 9.) CLAMP BUTT END OF PERIMETER CABLE.
- 10.) MOUNT VEHICLE GATE OPERATOR ABOVE DIMMER SWITCHES AT 6'-0" OFF. INSTALL RADIO CONTROLLER PER MFR'S INSTRUCTIONS.
- 11.) FOR DETAILS OF RADIO ANTENNA SUPPORT/RACEWAY SEE DWG. 3-0002-301.
- 12.) LOCATE SPRINKLER SYSTEM CONTROL PANEL ON NORTHSIDE OF BUILDING 4.1.1 IN A WEATHER-PROOF (NEMA 3) ENCLOSURE.

[illegible]



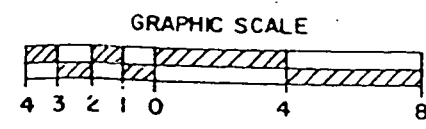
FLOOR PLAN

FINISHED FLOOR ELEVATION-6024'-2"



SOUTH ELEVATION

UNCONTROLLED COPY
VERIFY REVISIONS



PART	QTY	DESCRIPTION	MATERIAL
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REFERENCE DRAWINGS

ITEM	DWG. NO.	TITLE	JOB
1.	RF-46-1C	BLDG-46,73,82	ORIG. CONST. "AUSTIN"

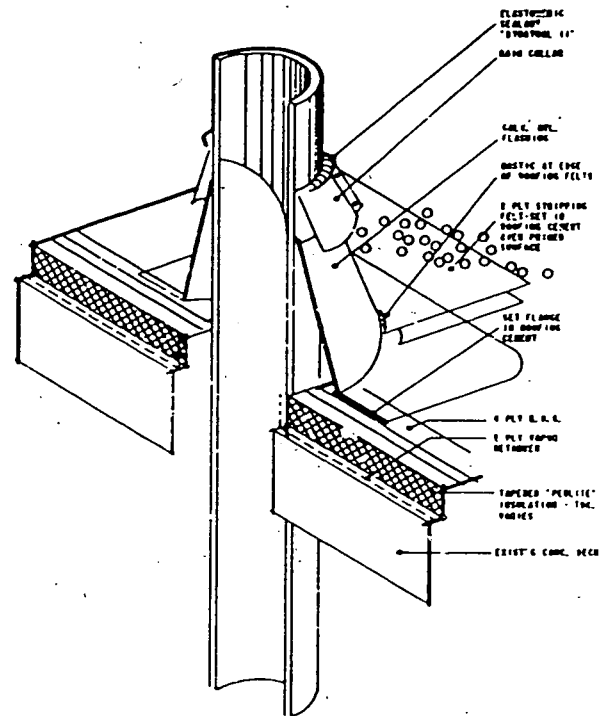
BUILDING AREA

320 SQUARE FEET

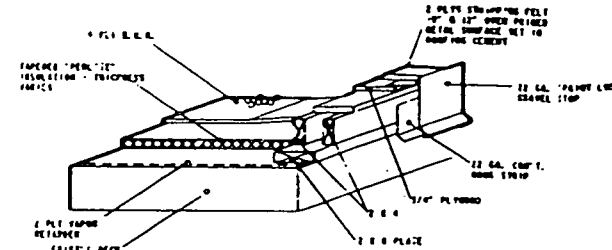
A ORIGINAL ISSUE		7-16-69	ACC.	[Signature]	
ISSUE	DESCRIPTION	DATE	BY	CLASSIFIED	JOB NO.
TOLERANCES	DESIGNED			U. S. ATOMIC ENERGY COMMISSION	
FRAC.	DRAWN	7-8-69		ROCKY FLATS AREA OFFICE GOLDEN, COLORADO	
ANGLE	CHECKED	7-16-69		THE DOW CHEMICAL COMPANY	
DEC.	APPROVED	7-16-69		A.E.C. CONTRACT AT 175-11-1106	
UNITED NOTED				ROCKY FLATS DIVISION GOLDEN, COLORADO	
IT-1-1-1-1-1-1				BUILDING 446	
REMOVE BURRS				FLOOR PLAN & ELEVATION	
AND					
SHARP EDGES					
NEET ASSEMBLY					
SUBMITTED				SIZE	DRAWING NUMBER
				ISSUE	SHEET

14

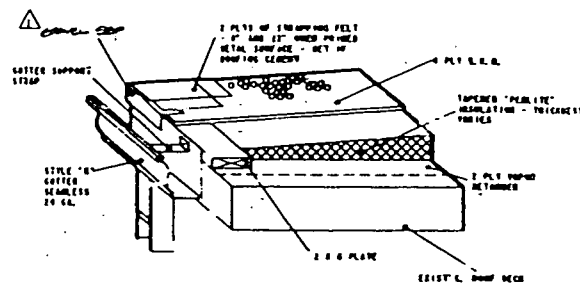
BV3 PIPE VENT



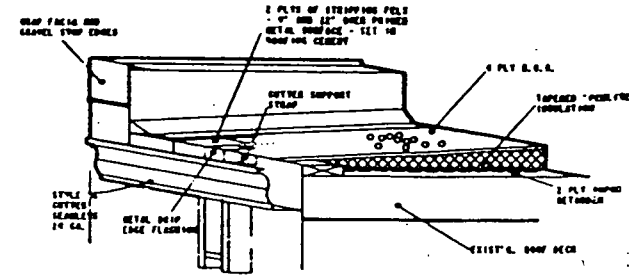
BGS2 GRAVEL STOP ISOMETRIC VIEW



BG2 GUTTER DETAIL ISOMETRIC VIEW



BGS3 GRAVEL STOP CORNER ISOMETRIC VIEW



Side # 446

ROOFING SYSTEM DESCRIPTION

EXISTING SURFACES AND PREPARATION
Remove and dispose of existing smooth surface. Concrete to be primed with asphalt primer.

TAPERED
Two (2) ply fiberglass Type IV felt. (Newville Type IV). Set both plies in continuous moppings of ASTM D-312 Type III Asphalt.

INSULATION
No flat-stock insulation to be utilized on this area.

TAPERED INSULATION
Set in Type III Asphalt. Multiple layer system. Primary slope to be 1/8" per foot tapered perlite (factory tapered) as manufactured by Newville. Minimum thickness 2".

ROOF JACKS
Built-up 4 ply Type IV Newville Glass Felt set in continuous moppings of ASTM D-312 Type III asphalt bitumen.

SUBFACING
1/2" gravel set in flood coat of asphalt.

BASE FLASHINGS
2 ply system consisting of Type IV fiberglass backer sheet and reinforced base flashing membrane (Newville Glass Felt Flexible). Both sheets set in Type III asphalt bitumen. Top surface of flashings to be coated with fiber reinforced aluminum coating.

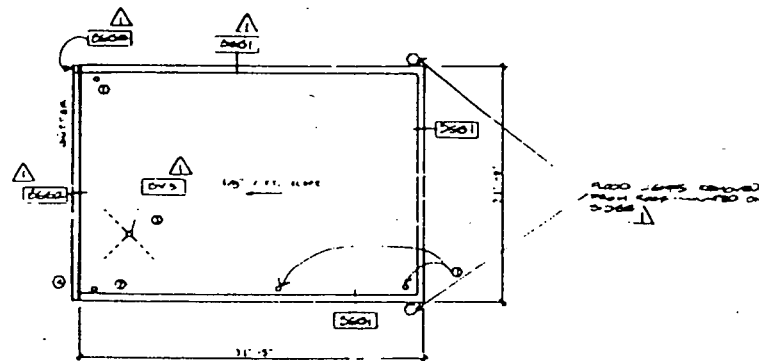
ROOF JACKS
Metal flashings to be set on top of 4 ply membrane. Primed with asphalt primer; secured with 2" x 4" screws. Two (2) ply glass felt set in flashing grade cement. Bottom ply to extend 3" beyond edge of flange onto roof membrane. Top layer to extend 6" beyond edge of flange.

METAL EDGE/PAVED GRAVEL STOP
Flashings to consist of primer prepared metal set in roofing cement. Two (2) plies of glass felt set in flashing grade roofing cement. (Newville Industrial Roof Cement). Bottom layer to be 9" wide centered over metal flange; top layer to be 12" wide and extend 2" further on deck and 1" further on metal flange.

SHEET METAL GABCE AND TYPE
Continuous Back Strip: 22 ga. galv.
Dry edge at gutters: 24 ga. galv.
Gutter: 24 ga. painted steel.
Reinforced gravel stop and fascia metal: 24 ga. paint-loc.

LIGHTNING PROTECTION
None noted/required.

MISC. FLASHINGS
Particular attention and note of:
1. Requirement to extend the low vent pipe. *See note on page 15.*
2. The roof mounted light will require a split roof jack to flash it.

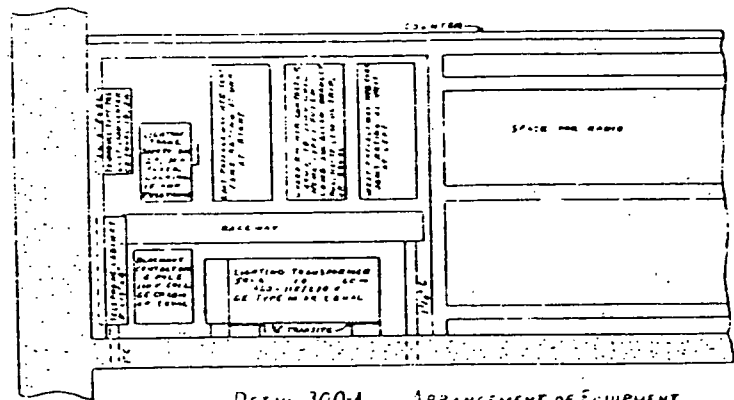
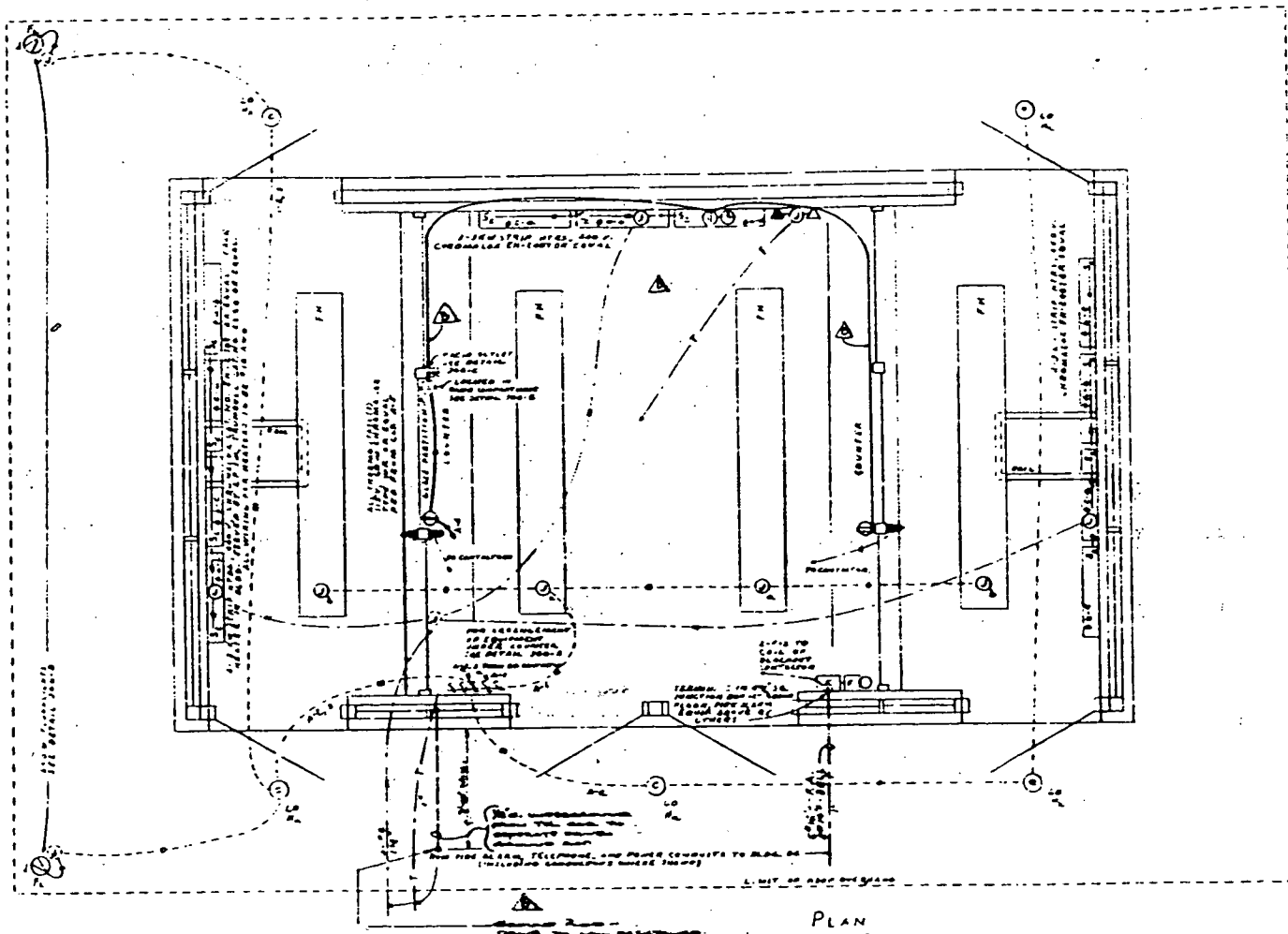


BUILDING 446 - ROOF PLAN

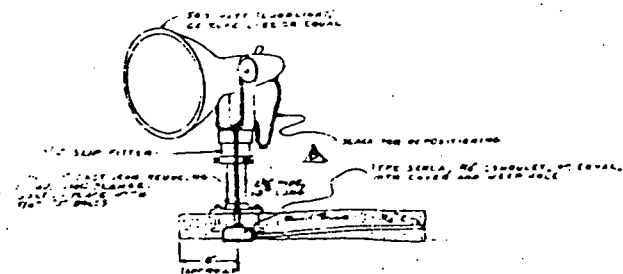
SCALE: 1/8" = 1'-0"

INFORMATION ONLY

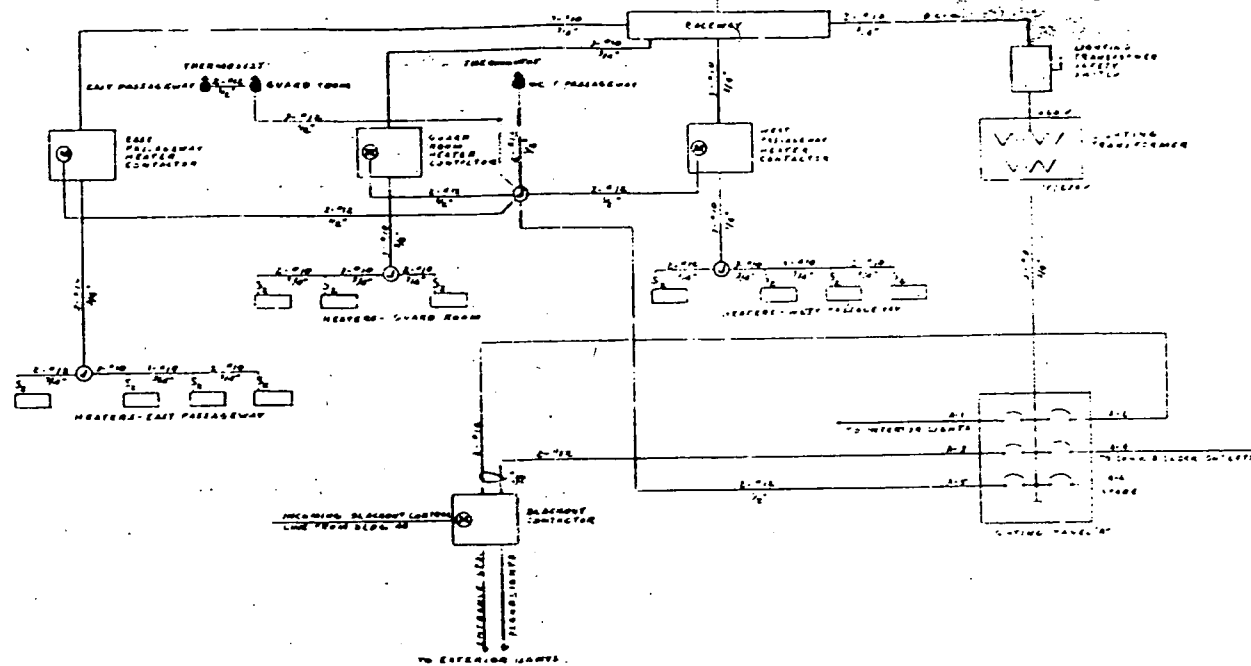
ORIGINAL ISSUE				DATE	BY	FOR	BY
DESIGNED	C.F.K.	85-11-18	U.S. DEPARTMENT OF ENERGY				
DRAWN	J.D.	85-11-18	ROCKY FLATS AREA OFFICE				
CHECKED			Rocky Flats Plant				
APPROVED			GOLDEN, COLORADO				
REVISIONS			PCAP ROOF REPLACEMENTS				
REVISIONS			BUILDING 446 PLAN-DT-15				
SCALE			SCALE: 1/8" = 1'-0"				
DATE			38503-115				



DETAIL 300-A ARRANGEMENT OF EQUIPMENT
SCALE: 1/8" = 1'-0"



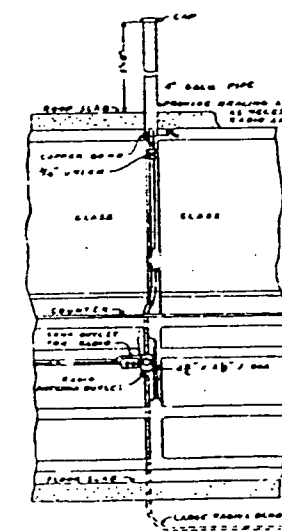
DETAIL 300-B FLOODLIGHTS ON ROOF
NOT TO SCALE



ONE LINE DIAGRAM - POWER AND LIGHTING

REFERENCE DWGS.
RF-O-100 SYMBOLS
RF-O-101 FIXTURE SCHEDULE

- NOTES
- 1. ALL CONDUIT IN SLABS UNLESS OTHERWISE NOTED
 - 2. MOUNT ALL SWITCHES AT LEAST 4' BELOW CEILING
 - 3. ALL WIRING NOT OTHERWISE INDICATED SHALL BE IN RACEWAYS
 - 4. ALL LIGHTING FIXTURES INCLUDING FLOODLIGHTS TO BE SURFACE MOUNTED



DETAIL 300-C ANTENNA MAST INSTALLATION
NOT TO SCALE

16/16